



كلية الصيدلة جامعة الزيتونة الأردنية
Faculty of Pharmacy
Al-Zaytoonah University of Jordan

" نحو تعليم صيدلاني متميز "
Toward Excellence in Pharmaceutical
Education

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" Tradition and Quality "

Detailed Course Description - Course Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-3.0E
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Faculty	pharmacy	Department	pharmacy
Course number	201553	Course title	Clinical Toxicology
Number of credit hours	3	Pre-requisite/co-requisite	0201434

Brief course description

This course focuses on the role of pharmacist in treatment of poisoning and general management of poisoning & drug overdose. Also it focuses on antidotes and their mechanism of action. In addition to that it gives an idea about the Role and Status of Poison Control Centre.

Course goals and learning outcomes	
Goal 1	Be familiar with clinical presentation for drug overdose
Learning outcomes	1.1 know mechanisms of toxicity for common drugs, chemicals and household products in humans 1.2 Describe typical poisoning of selected drugs and differentiate poisonings by clinical presentation. 1.3 select appropriate laboratory tests to determine the identity and severity of poisoning.
Goal 2	Be familiar with medications indicated and contraindicated in the treatment of toxicity.
Learning outcomes	2.1 Describe the prevention, diagnosis, and treatment of poisoning. 2.2 Know the mechanism of action of poison treatments.
Goal 3	3. Be familiar with the concept of toxic exposure during pregnancy, in infants, children and geriatric patients.
Learning outcomes	3.1 Understand the impact of maternal-fetal toxicology. 3.2 Grasp the role of addictive drugs in toxicology 3.3 Properly counsel patients in order to prevent poisoning.
Textbook	1.- Goldfrank's Toxicologic Emergencies, 8th Edition / Editors: Flomenbaum, Neal E.; Goldfrank, Lewis R.; Hoffman, Robert S.; Howland, Mary Ann; Lewin, Neal A.; Nelson, Lewis S. / 2006 McGraw-Hill
Supplementary references	1.- Color Atlas of Human Poisoning / James Diaz / Published in 2006 by CRC Press Taylor & Francis Group



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Course timeline				
Week	Number of hours	Course topics	Chapters (textbook)	Notes
1	1 1 1	The Pharmacology of Human Poisonings: -Definitions -Absorption,Distribution, - Metabolism, & Excretion	9	
2	1 1 1	-Poisoning in children -Poisoning in adult -Poisoning in elderly	9	
3	1 1 1	Reproductive and Perinatal Toxicology: -Toxins affecting fertility, potency, gestation -Specific poisonings in pregnancy -Substance abuse in pregnancy	30	
4	1 1 1	-The General Managementof the Poisoned Patient: -Preventing GI absorption of the toxin -Enhancing elimination of the toxin	4	
5	1 1 1	-Evaluation of the Poisoned Patient -Physical assessment of the poisoned patient -Laboratory assessment of the poisoned patient and Radiographic evaluation	6	
6	1 1 1	-Toxidromes -Specific antidotes and Nonspecific antidotes, Metal chelators -Antivenins, and Specific antagonists	8	
7	1 1 1	Poisonings with Over-the-Counter and Opioid Analgesics: -Acetaminophen (APAP) - aspirin (ASA) - Nonsteroidal anti-inflammatorydrugs	34 - 37	
8	1 1 1	- Nonsteroidal anti-inflammatorydrugs - Opiods - Opiods	37 38	



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9	1 1 1	-Poisonings with methylxanthines -Poisonings with anticonvulsants -Poisonings with Sedative-hypnotics	47,68,69	
10	1 1 1	-Poisonings with Sedative-hypnotics -Poisoning with antidiabetics -Poisoning with antidiabetics	69 48 48	
11	1 1 1	Poisonings with Cardiovascular Medications: -Cardiac glycosides -Beta-blockers - Beta-blockers	58, 59	
12	1 1 1	-Poisoning with Calcium channel blockers - Poisoning with antihistamine -Poisoning with decongestant	59 54	
13	1 1 1	-Poisoning with anticoagulants -Poisoning with anticoagulants -Poisoning with antithyroids	45, 74	
14	1 1 1	Mushroom Poisonings -Cyclopeptide-containing mushrooms, Monomethylhydrazine-containing mushrooms, Muscarine-containing mushrooms -Coprine-containing mushrooms,Ibotenic acid– muscimol-containing mushrooms, Psilocybin- containing mushrooms -Orellanine-containing mushrooms, Miscellaneous gastrointestinal toxin-containing mushrooms	114	
15	1 1 1	Poisonous Plants: -Cardiovascular toxicity, Neurotoxicity group -Hepatotoxicity group, Cyanogenic group -Gastrointestinal toxicity, Dermatotoxicity group	114	
16	1 2	Case presentation Final Exam		

Theoretical course evaluation methods and weight	First exam 25% Second exam 25% Final exam 50%	
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher	Dr. Suhair Hikmat	Office Number	217
Phone number (extension)	306	Email	suhair.jasim@zuj.edu.jo
Office hours			